

09/869618

CERTIFICATION UNDER 37 CFR 1.10

I hereby certify that this Transmittal Letter and the papers indicated as being transmitted therewith are being deposited with the United States Postal Service on this date shown below in an envelope as "Express Mail Post Office to Addressee" under the below indicated Mailing Label Number, addressed to: Box PCT, Assistant Commissioner for Patents, Washington, D.C. 20231.

Mailing Label No.: EF297166920USDeposit Date: June 29, 2001Name: Diane M. HixsonATTORNEY'S DOCKET No. DYOUP0216US

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(DO/EO/US)**

In re national phase of:

Applicant(s): John David Schnabel et al.
International Application No.: PCT/GB99/04397
International Filing Date: 23 December 1999
Priority Date Claimed: 30 December 1998
Title of Invention: CABINET

**TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED
OFFICE (DO/EO/US) CONCERNING ENTRY INTO U.S. NATIONAL
PHASE UNDER 35 U.S.C. 371**

Box PCT
Assistant Commissioner for Patents
Washington D.C. 20231

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information under 35 U.S.C. 371:

1. This express request to immediately begin national examination procedures (35 U.S.C. 371(f)).
2. The U.S. National Fee (35 U.S.C. 371(c)(1)) and other fees (37 CFR 1.492) as indicated below.

Transmittal Letter to United States Designated/Elected Office

Page 2

3. A copy of the International application (35 U.S.C. 371(c)(2)):
- a. ☒ is transmitted herewith
(International Publication No. WO 00/40119).
 - b. ☐ is not required, as the application was filed with the United States Receiving Office.
 - c. ☐ has been transmitted by the International Bureau. A copy of Form PCT/1B/308 is enclosed.
4. ☐ A translation of the International application into the English language (35 U.S.C. 371(c)(2)) is transmitted herewith.
5. Amendments to the claims of the International application under PCT Article 19 (35 U.S.C. 371(c)(3)):
- a. ☐ are transmitted herewith.
 - b. ☐ have been transmitted by the International Bureau.
6. ☐ A translation of the amendments to the claims under PCT Article 19 (38 U.S.C. 371(c)(3)) is transmitted herewith.
7. A copy of the international examination report (PCT/IPEA/409)
- a. ☒ is transmitted herewith.
 - b. ☐ is not required as the United States Patent and Trademark Office was the IPEA.
8. Annex(es) to the international preliminary examination report
- a. ☒ is/are transmitted herewith.
 - b. ☐ is not required as the United States Patent and Trademark Office was the IPEA.
9. ☐ A translation of the annexes to the international preliminary examination report is transmitted herewith.

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10. ☐ An oath or declaration of the inventor (35 U.S.C. 371(c)(4)) complying with 35 U.S.C. 115 is submitted herewith.
11. An International Search Report (PCT/ISA/210)
- a. ☒ is transmitted herewith.
- b. ☐ has been transmitted by the International Bureau.
- c. ☐ is not required, as the application was searched by the United States International Searching Authority.
12. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98 is transmitted herewith, along with Form PTO-1449 and copies of citations listed.
13. ☐ An assignment document is transmitted herewith for recording, along with a separate cover sheet.
14. ☒ A preliminary amendment is enclosed.
15. ☐ A verified statement claiming small entity status is enclosed.
16. ☐ Other:

2001 JUN 29 PCT/PTO

Basic National Fee					Fee
IPEA - US					\$690.00
ISA - US					\$710.00
PTO not ISA or IPEA					\$1,000.00
Claims meet PCT Art. 33(1)-(4) - IPEA - US					\$100.00
Filing with EPO or JPO search report					\$860.00
Enter appropriate basic fee →					\$860.00
Claims*	Number filed		Number extra	Rate	
Total claims	8	-20	0	\$18.00	\$0.00
Independent claims	3	-3	0	\$80.00	\$0.00
Multiple dependent claims (if applicable)				\$270.00	
Total of above					\$860.00
Small entity statement enclosed, 1 if Yes, 0 if No →				0	\$0.00
Total national fee					\$860.00
Fee for recording enclosed assignment				\$40.00	
Total fees enclosed					\$860.00

*After any attached preliminary amendment reducing the number of claims and/or deleting multiple dependencies.

☒ A check in the amount of \$ 860.00 to cover the above fees is enclosed.

☐ Please charge our Deposit Account No. 18-0988 in the amount of \$. A duplicate copy of this sheet is enclosed.

WARNING: TO AVOID ABANDONMENT OF THE APPLICATION THE BASIC NATIONAL FEE MUST BE PAID WITHIN THE 20/30 MONTH TIME LIMIT.

16. The Commissioner is hereby authorized to charge the following additional fees that may be required by this paper and during the entire pendency of this application to our Deposit Account No. 18-0988:

a. ☒ 37 CFR 1.492(a)(1), (2), (3), (4) and (5) (filing fees)

WARNING: BECAUSE FAILURE TO PAY THE NATIONAL FEE WITHIN 30 MONTHS WITHOUT EXTENSION (37 CFR S 1.495(B)(2)) RESULTS IN ABANDONMENT OF THE APPLICATION, IT WOULD BE BEST TO ALWAYS CHECK THE ABOVE BOX.

b. ☐ 37 CFR 1.492(b), (c) and (d) (presentation of extra claims)

NOTE: Because additional fees for excess or multiple dependent claims not paid on filing or on later presentation must only be paid or these claims cancelled by amendment prior to the expiration of the time period set for response by the PTO in any notice of fee deficiency (37 CFR 1.492(d)), it might be best not to authorize the PTO to charge additional claim fees, except possibly when dealing with amendments after final action.

Respectfully submitted,



Don W. Bulson, Reg. No. 28,192

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT application of:

Applicant: John David Schnabel et al.

Appln. No.:

Filing Date:

Title: CABINET

Docket No.: DYOUP0216US

PRELIMINARY AMENDMENT DELETING MULTIPLE DEPENDENCIES

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Please amend the application in the below indicated manner.¹ The Commissioner is hereby authorized to charge any extra claim fees to Deposit Account No. 18-0988 under the above set forth Docket No.

In the Claims:

Please amend claim 3 as follows:

3. (Amended) Panel mounting means for mounting panels according to claim 1 in combination with side members (5) or braces (7) of a cabinet, wherein the braces (7) have horizontally elongate slots (10) therein, whereby the braces (7) are securable by fastening means, such as bolts, extending through the slots (10), and horizontally movable with respect to the side members (5) to permit the panel mounts (1) to be secured at any desired location in the depth of the cabinet.


¹ The change(s) to the specification and/or claims are shown by underscoring and bracketing in the marked-up version attached hereto as an Appendix.

Serial No.

Remarks

This amendment is being submitted to delete all multiple dependencies from the claims prior to calculation of the filing fee.

Respectfully submitted,



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Mailing Label No.: EF297166920US

Deposit Date: June 29, 2001


Name: Diane M. Hixson

Serial No.

APPENDIX

The change(s) to the specification and/or claims are below shown by underscoring and bracketing.

In the Claims:

Claim 3 has been amended as follows:

3. (Amended) Panel mounting means for mounting panels according to claim[s] 1 [or 2] in combination with side members (5) or braces (7) of a cabinet, wherein the braces (7) have horizontally elongate slots (10) therein, whereby the braces (7) are securable by fastening means, such as bolts, extending through the slots (10), and horizontally movable with respect to the side members (5) to permit the panel mounts (1) to be secured at any desired location in the depth of the cabinet.

CABINET

The invention relates to electrical cabinets.

Electrical cabinets are used for receiving electronic and electrical components particularly but not exclusively for the operation of local data networks. The components such as sub-racks with electronic and electrical components, fans and other accessories are mounted within the cabinet on internal frames and the cabinets generally have side panels, a door and end panels and are mounted on a frame which preferably comprises upper and lower end members and vertically extending side members preferably provided one towards the front and the other towards the rear at each lateral side of the cabinet.

According to one aspect of the invention, panel mounts, comprising members to extend vertically within the cabinet and having attachment means whereby panels can be mounted thereupon, are mounted to the side members of the cabinet by integral members which extend substantially parallel to the outer face of the panel mount at a spacing from the outer face and in a direction perpendicular to the longitudinal extent of the panel mount, such integral members each being engaged in a respective aperture in the side members or braces extending between the side members at one lateral side of the cabinet, followed by movement forwardly or rearwardly to secure the panel mount to the side members, retaining means such as a pin or stud then being inserted in aligned bores in the panel mounts and side members or braces to prevent return movement in said forward or rearward directions.

Such method of securement can have the advantage over previously proposed methods which involved vertical movement of the panel mounts to secure them, that panel mounts of the full height of the side members can be secured to the side members where previously, due to the vertical movement experienced during the engagement, it was necessary for the panel mount to be significantly shorter than the side member. The panel mounts, which generally define a 483 mm (19 inch) wide mounting, can thus be secured at various locations in the depth of the cabinet and can extend for the full height of the side members.

Preferably the apertures in the side members or braces are spaced at 25 mm horizontal spacing to set the locations at which the panel mounts can be secured at

25 mm spacings.

Advantageously the braces have horizontally elongate slots therein in addition to the apertures whereby the braces can be secured by fastenings means, such as bolts, extending through the slots whereby the braces are horizontally movable with respect to the side members to permit the panel mounts to be secured at any desired location in the depth of the cabinet.

According to another aspect of the invention in an electrical cabinet chassis supports, for example for supporting shelves, are provided in the form of cantilevers by providing the chassis supports with vertically spaced securing hooks which together are capable of preventing pivoting movement of a mounted article such as a shelf.

The vertically spaced hooks may project longitudinally of a wall of the chassis support and parallel thereto to be engaged in respective apertures in a member from which they are to be supported.

According to a further aspect of the invention, means to secure in abutment two rectangular section tubular metal members with their longitudinally axes mutually at right angles comprises punching or drilling at least two first holes in one wall of each of the metal members, acting through the first holes so formed to burst a respective second hole to each first hole in the opposite wall of the metal members to form an outwardly extending collar, screw threading the second holes in one of the members, engaging the collars of the other of the members in the first holes of said one of the members and engaging a bolt through the aligned first and second holes of said one and said other members to engage the screw thread in the collar of said one of the members to clamp the members together.

According to a still further aspect of the invention, in an electrical cabinet a method of hanging a vertical side panel comprising engaging a top flange of the side panel, which top flange has a horizontal portion and a vertical return, over an upper suspension member of a frame of the cabinet and engaging a horizontal lower flange of the side panel with an upturned hook portion at the lower end of the frame of the cabinet so that the upturned hook projects upwardly through an aperture in the horizontal lower flange.

Preferably the aperture in the horizontal lower flange is aligned with a cutout in a free edge of the flange and engagement is effected by engaging the hook in the cutout

and then slightly raising the side panel while pushing it inwardly towards the cabinet before lowering the side panel downwardly onto the hook.

The upper suspension member of the frame may be provided at the upper end of vertical side members of the frame or may be provided on extension pieces which are supported by the vertical side members and project laterally outwardly to extend the width of the cabinet beyond the side members. By using such extension pieces extra wiring accommodating spaces can be provided at one or both of the sides of a cabinet.

The extension pieces can have hooks to engage over the upper edge of the side members, preferably in a recess so that such upper edges are below the upper extremity of the side members, and be bolted to the side members to retain them in position. Preferably each extension piece can be used as either an upper or a lower extension piece.

The invention is diagrammatically illustrated by way of example in the accompanying drawings, in which:-

Figure 1 is a perspective view of a panel mount with attachment means and a side member on which it can be mounted according to the invention;

Figure 1a is a sectional end view of the panel mount of Figure 1;

Figure 2 is an elevation of a brace to which the panel mount of Figure 1 can be secured;

Figure 3 is a perspective view of an inner face of a chassis support with cantilever engagement hooks;

Figure 4 is a view of the chassis support of Figure 3 from the other side;

Figure 5 is an exploded view showing components of an electrical cabinet;

Figure 6 is a view of the portion of Figure 5 indicated by the arrow VI but with a panel hung thereon;

Figure 7 is a sectional view through two of the components shown in Figure 6;

Figure 8 is a schematic view indicating hanging of a vertical side panel of an electrical cabinet by a method according to the invention;

Figure 9 is a sectional view taken on line IX-IX of Figure 8;

Figure 10 is a perspective view from above and an inner face of an extension member of an electrical cabinet according to the invention in a position to form an upper extension member;

Figure 11 is a view from the other side of the extension member of Figure 10 also orientated so as to form an upper member; and

Figure 12 is a view of the extension member shown in Figures 10 and 11 but in an orientation to form a lower extension member.

5 Referring to the drawings and firstly to Figures 1 and 2, a panel mount 1 is a generally angular section strip of metal and in one face has a three sided cutout 2 with the portion of the wall cut out, bent outwardly and bent back to form a tongue 3 which extends parallel to the wall in which the cutout 2 is formed. The tongue 3 can be inserted in any one of horizontally spaced apertures in a vertical side member 5 forming
10 part of the frame of an electrical cabinet or can be inserted in any one of horizontally spaced apertures 6 in a brace 7 which can be secured to the side members of the frame of an electrical cabinet on one side of the cabinet to extend between a front side member and a rear side member. The apertures 4 or 6 are spaced at a pitch of 25 mm and thus the panel mount 1 can be supported on the side member 5 or the brace 7 by inserting the
15 tongue 5 in an aperture 4 or 6 and then moving the panel mount 1 to cause the tongue 5 to move behind the web of the side member 5 or the brace 7 in which the aperture 4 or 6 is formed. The panel mount 1 does thus not need to be moved vertically to secure it and can be of the same length as the side members so as to extend completely between upper and lower frame members of the cabinet. A through aperture 8 may be provided in the
20 panel mount 1 through which a pin or clip (not shown) can be inserted to engage in an aperture 9 provided alongside the aperture 4 or 6 in which the tongue 3 is engaged thereby to prevent return movement which would free the tongue from the aperture 4 or 6. Elongate slots 10 in the brace 7 can be used to secure the brace 7 by bolts to the side members, the length of the slots 10 allowing longitudinal shifting of the brace 7 with
25 respect to the side members to allow stepless positioning of the panel mounts with respect to the side members 5.

Referring to Figures 3 and 4, a chassis support 11 is shown which comprises upper and lower flanges 12 and 13 above and below a vertical web 14. In the web 14 two cutouts 15 are formed by cutting around three sides and the member formed by each
30 cutout is pressed out of the plane of the web 14 by a bend 16 and a further bend 17 and the tongue so formed which extends parallel to the web 14 but spaced therefrom is cut away to form upper and lower hooks 18, 19. By providing the two spaced hooks the

chassis support 11 can be engaged in two vertically spaced apertures and then moved downwardly so that the chassis support 11 is cantilevered from a pair of the hooks 18, 19 and can resist tilting forces applied thereto. Although the chassis support 11 is shown as having two cutouts 15 and two pairs of hooks 18, 19 it is only envisaged that one or other of the pairs of hooks would be used at any one time but by providing two cutouts the chassis support 11 can act as a lefthanded chassis support or a righthanded chassis support. The chassis supports 11 are particularly suitable for supporting shelves in electrical cabinets.

Referring to Figure 5, an electrical cabinet 20, shown in exploded form, comprises an upper frame 21 and a lower frame 22 each formed by back-to-back U-shaped members 23 of tubular metal, four side members 24 extending between the upper frame 21 and the lower frame 22, an upper member 25 with cutouts 25a in three of the walls thereof, removable side panels 26 only one of which is shown and a removable door 27 which closes the front of the cabinet.

As can be seen in Figure 6, the side panel 26 has an upper horizontal flange 28 with a return vertical flange 29, the panel 26, 28, 29 enveloping the two side members 24 on that side of the frame of the cupboard.

Figure 7 shows the means whereby each of the U-shaped members 23 which extend horizontally can be mounted to the respective side members 24 which extend vertically. Two first holes 30 are punched or drilled in one wall 31 of the side member 24 and two first holes 32 are punched or drilled in one wall 33 of the U-shaped member 23. Operating through the first holes 30, 32, second holes 34 are then burst through the second wall 35 of the side members 24 and second holes 36 are burst through the second wall 37 of the U-shaped member 23. Bursting the holes in this way forms collars 38 at the outsides of the holes 34 and collars 39 at the outside of the holes 36. The holes 36 are then screw threaded. When the members 23, 24 are pressed together the collars 38 on the side members 24 are a push fit into the first holes 32 in the U-shaped member 23 so that when bolts (not shown) are inserted along the aligned axis 40 of each of the holes 30, 34, 32, 36 to pull the members 23, 24 tightly into engagement with one another, the members 23, 24 are locked accurately at right angles one to the other without any play such that even a tall framework of U-shaped members 23 and side members 24, for example two metres tall, can stand rigidly without a tendency for the upper frame to

move sideways or from to rear due to the connections being less than entirely rigid. The collars 38 can however have a tapering formation such that great precision is not required in the formation of the holes and collars.

Referring to Figures 8 to 12, the upper end of each side member 24 is provided with a formation similar to that shown in Figure 10 at the righthand side thereof, that is to say it has a groove 41 in the upper face 42 stepped back from a front upper corner 43. Actually the formation shown in Figure 10 is an extension piece to be hung on the upper or lower end of one of the side members 24 but the formation of the top end and bottom end of the side members 24 is the same as shown in Figure 10.

Referring to Figure 8, the side panel 26 shown has its horizontal upper flange 28 overlapping the upper surface 42 of the side member 24 and its vertical flange 29 engaged in the groove 41 of the upper end of the side member 24. At the lower end the side panel 26 has a horizontal flange 44 which, as shown in Figure 9, has, in alignment with each of the side members 24, apertures 45 and cutouts 46. At each side of the side member 24 both at the upper and at the lower end a hook 47 is provided. The hook 47 at the upper end has no function but that at the lower end engages in a respective one of the apertures 45. With reference again to Figure 8 the method of engagement is that the panel 26 is first hooked onto the upper end of the side member so that the vertical flange 29 engages in the groove 41. The bottom end of the panel 26 is then pushed inwardly to engage the hooks 47 in the cutouts 46, a flared mouth of the cutouts 46 assisting this alignment. The side panel 26 is then raised slightly and pushed inwardly so that the hook 47 at the lower end of the side member 24 can engage in the respective aperture 45 in the bottom flange 44 of the side panel 26. The side panels 26 can thus quickly and easily be engaged with or disengaged from the framework of the cabinet. It will be seen that the hooks 47 taper down towards their free ends such that the weight of the panel engages the edges of the apertures 45 both with the outer and with the inner faces of the hook 47 so that vibration will not cause rattling of the panel.

Referring now also to Figures 11 and 12, the extension pieces 48 have, in addition to the groove 41, the top face 42, the front edge 43 and the hooks 47 previously described, a bent out tongue 49 and aligned apertures 50, 51 by means of which they can be hooked onto and bolted to the outer face of the upper and lower ends of the side members 24. The extension pieces 48 are preferably 100 mm between the front edge 43

and the upper edge of the face in which the tongue 49 is provided whereby they can space the side panels 26 outwardly from the side members 24 by 100 mm to give an additional space for extra wiring or other purposes. A blanking plate can extend between the door of the cabinet and the extended position of the side panels 26 to fill 100 mm space at the front. If two adjacent cabinets are each provided with extension pieces 48 on their adjacent sides then the two cabinets can be accurately spaced apart by 200 mm to form a wiring space therebetween, a suitable blanking plate being provided to cover the space to the front.

CLAIMS

1. Panel mounting means for mounting panels of a cabinet, comprising panel mounts (1) in the form of members disposable at vertical positions within the cabinet and having attachment means for the mounting of panels thereupon, the panel mounts (1) being mountable to side members (5), or braces (7) extending between side members (5), of the cabinet by integral members (3) which extend substantially parallel to and at a spacing from the outer face thereof and in a direction perpendicular to the longitudinal extent thereof, each panel mount (1) being mounted by engagement of the integral member (3) thereof in a respective aperture (4, 6) in the side members (5) or braces (7), followed by movement forwardly or rearwardly to secure the panel mount (1) to the respective side member (5) or brace (7), and retaining means, such as pins or studs, for insertion in aligned bores (8, 9) in the panel mounts (1) and the side members (5) or braces (7) to prevent return movement of the panel mounts (1) in the forward or rearward directions.
2. Panel mounting means for mounting panels according to claim 1 in combination with side members (5) or braces (7) of a cabinet, wherein the apertures (4, 6) in the side members (5) or braces (7) are spaced with a 25mm horizontal spacing to set the locations at which the panel mounts (1) can be secured at 25mm spacings.
3. Panel mounting means for mounting panels according to claim 1 or 2 in combination with side members (5) or braces (7) of a cabinet, wherein the braces (7) have horizontally elongate slots (10) therein, whereby the braces (7) are securable by fastening means, such as bolts, extending through the slots (10), and horizontally movable with respect to the side members (5) to permit the panel mounts (1) to be secured at any desired location in the depth of the cabinet.
4. A method of securing in abutment two rectangular-section tubular metal

members (23, 24) having longitudinal axes extending mutually at right angles, comprising punching or drilling at least two first holes (30, 32) in one wall (31, 33) of each of the metal members (23, 24), acting through the first holes (30, 32) so formed to burst second holes (34, 36), respective to each of the first holes (30, 32), in the opposite walls (35, 37) of the metal members (23, 24) to form outwardly-extending collars (38, 39), screw threading the collars (39) in one of the metal members (23), engaging the collars (38) of the other of the metal members (34) in the first holes (32) of the one of the metal members (23), and engaging bolts through respective ones of the aligned first and second holes (32, 32, 34, 36) in the metal members (23, 24) to engage the screw threads in the collars (39) of the one of the metal members (23) to clamp the metal members (23, 24) together.

5. A method of hanging a vertical side panel (26) of an electrical cabinet, comprising engaging a top flange of the side panel (26), which top flange has a horizontal portion (28), over an upper suspension member of a frame of the cabinet, and engaging a horizontal lower flange (44) of the side panel (26) with an upturned hook portion (47) at the lower end of the frame of the cabinet such that the upturned hook (47) projects upwardly through an aperture (45) in the lower flange (44), wherein the aperture (45) in the lower flange (44) is aligned with a cutout (46) in a free edge of the lower flange (44) and engagement is effected by engaging the hook (47) in the cutout (46) and then slightly raising the side panel (26) while pushing the same inwardly towards the cabinet before lowering the side panel (26) downwardly onto the hook (47).

6. A method according to claim 5, wherein the upper suspension member of the frame of the cabinet is provided at the upper end of vertical side members (24) of the frame or on extension pieces (48) which are supported by the side members (24) and project laterally outwardly to extend beyond the side members (24).

7. A method according to claim 6, wherein the extension pieces (48) have hooks (49) to engage over the upper edges of the side members (24), in a recess such that the upper edges are below the upper extremity of the side members (24), and be bolted to the side members (24) to be retained in position.

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8. A method according to claim 7, wherein each extension piece (48) can be used as either an upper or lower extension piece.

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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : A47B 96/06, 57/40	A1	(11) International Publication Number: WO 00/40119 (43) International Publication Date: 13 July 2000 (13.07.00)
(21) International Application Number: PCT/GB99/04397 (22) International Filing Date: 23 December 1999 (23.12.99) (30) Priority Data: 9828841.8 30 December 1998 (30.12.98) GB (71) Applicant (for all designated States except US): APW ELECTRONICS LIMITED [GB/GB]; Electron Way, Chandlers Ford, Eastleigh, Hampshire SO53 4ZR (GB). (72) Inventors; and (75) Inventors/Applicants (for US only): SCHNABEL, John, David [GB/GB]; 11A Berkeley Close, Hill Head, Fareham, Hampshire (GB). PARKIN, John, Richard [GB/GB]; 1 St Mary's Close, Brangore, Christchurch, Dorset BH23 8HU (GB). (74) Agent: PURVIS, William, Michael, Cameron; D Young & Co, 21 New Fetter Lane, London EC4A 1DA (GB).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: CABINET		
(57) Abstract		
<p>In a cabinet having vertically extending side members (5) forming part of a chassis of the cabinet, panel mounts (1), also to extend vertically in the cabinet and to have panels mounted thereupon, are mountable to the side members (5) by integral members (3) which extend parallel to the outer face of the panel mount (1) at a spacing from the outer face and in a direction perpendicular to the longitudinal extent of the panel mount (1), i.e., horizontally. The integral members (3) are engaged in respective apertures in the side members (5) or in braces (7) extending between the side members (5) followed by forward or rearward movement to effect securement, retaining means such as pins or studs then being inserted in aligned bores (8, 9) in the panel mounts (1) and side members (5) to prevent return movement.</p>		

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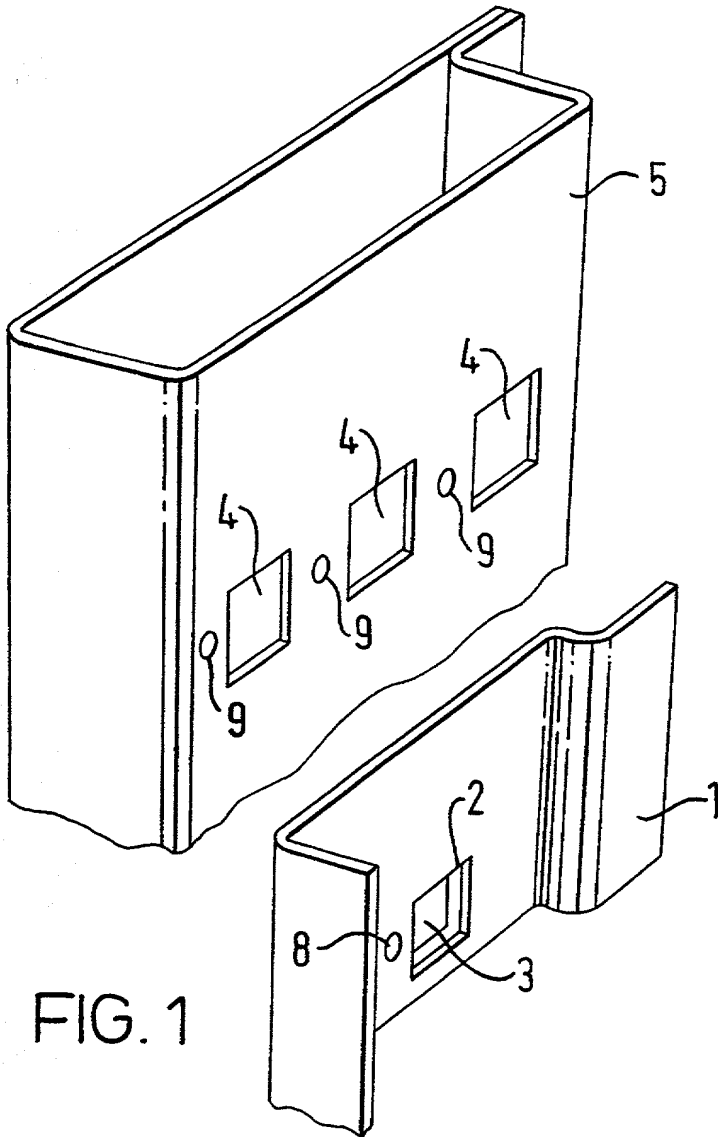


FIG. 1

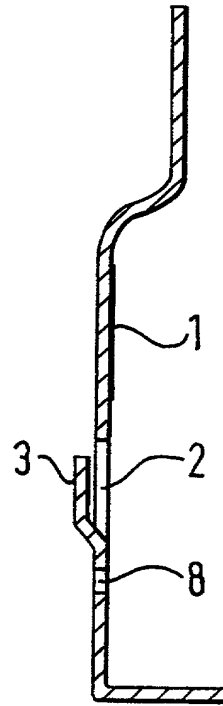


FIG. 1a

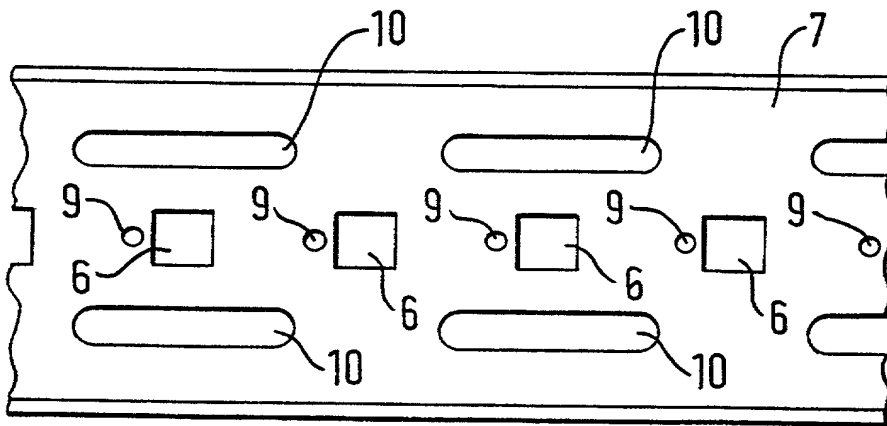


FIG. 2

SUBSTITUTE SHEET (RULE 26)

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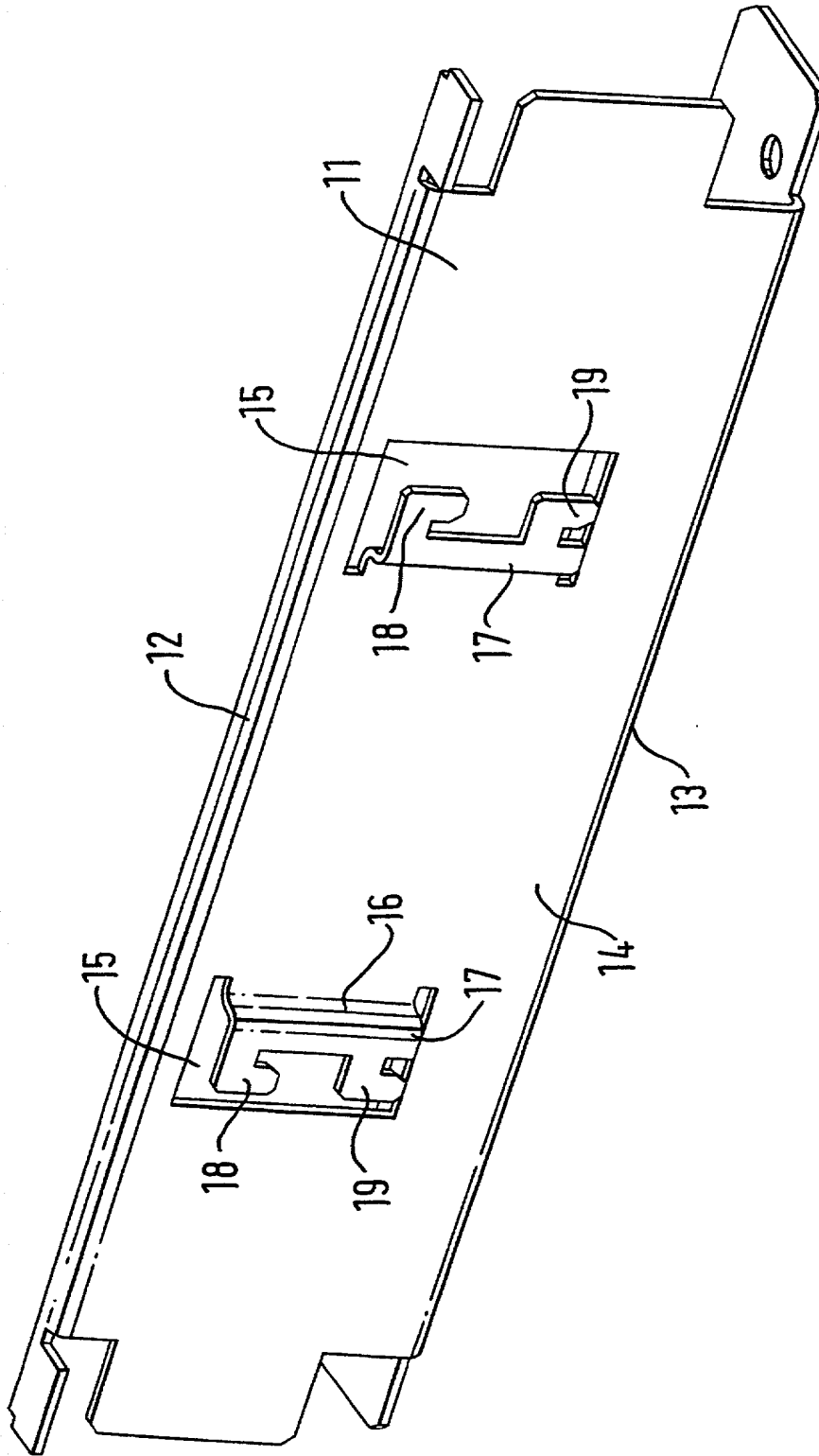


FIG. 3

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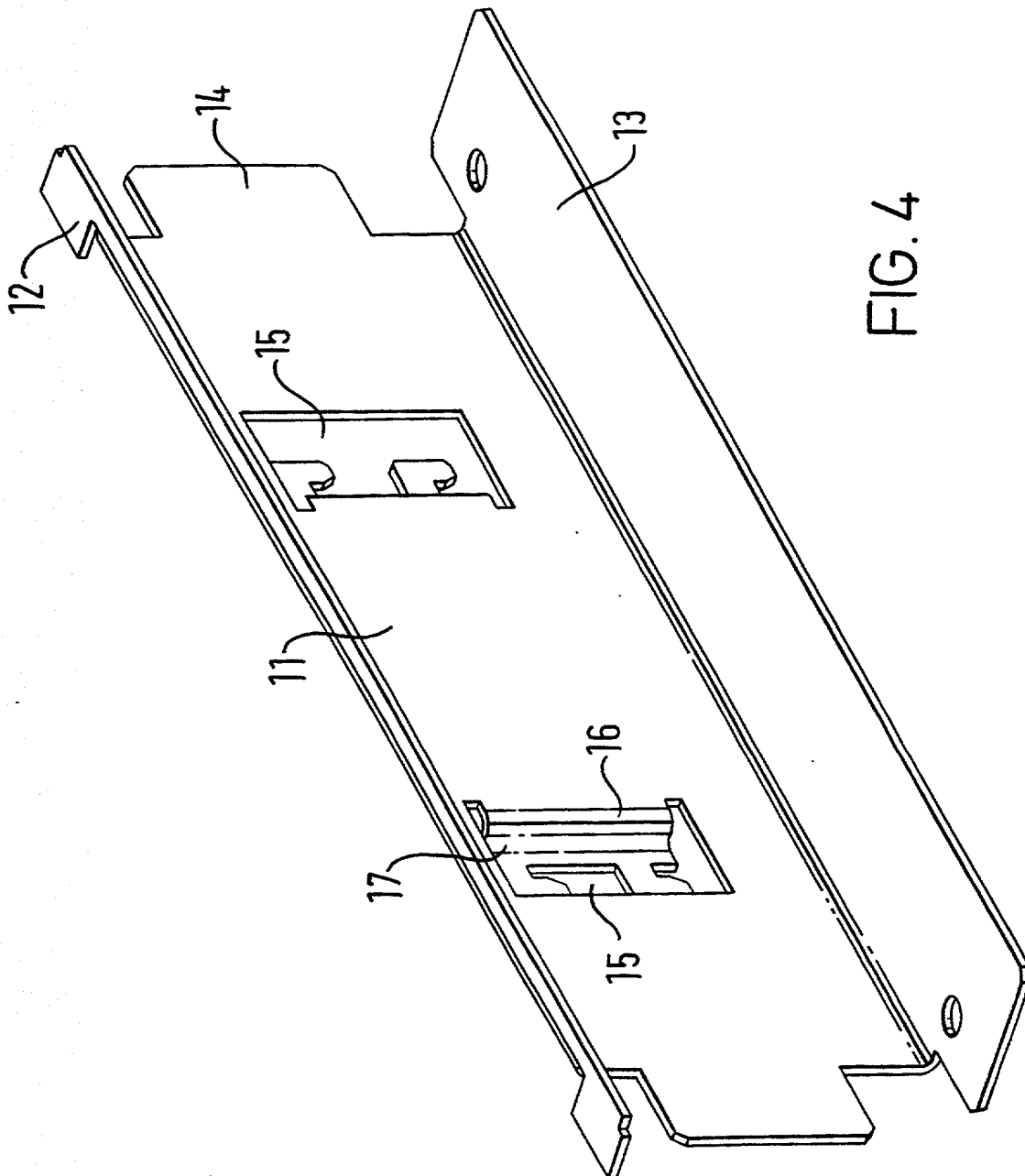


FIG. 4

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FIG. 5

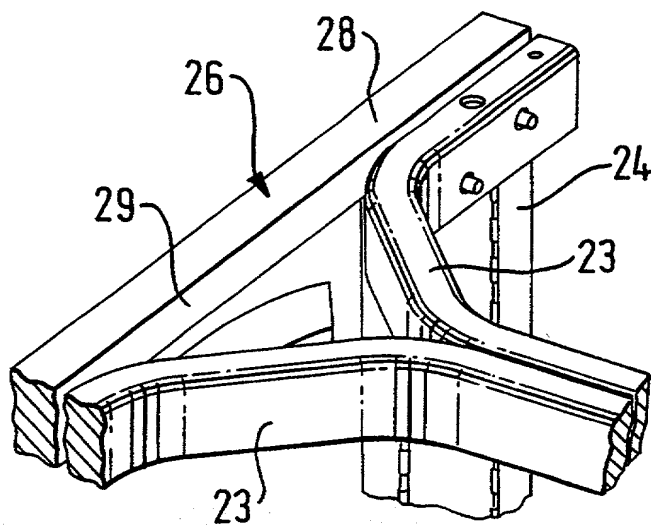
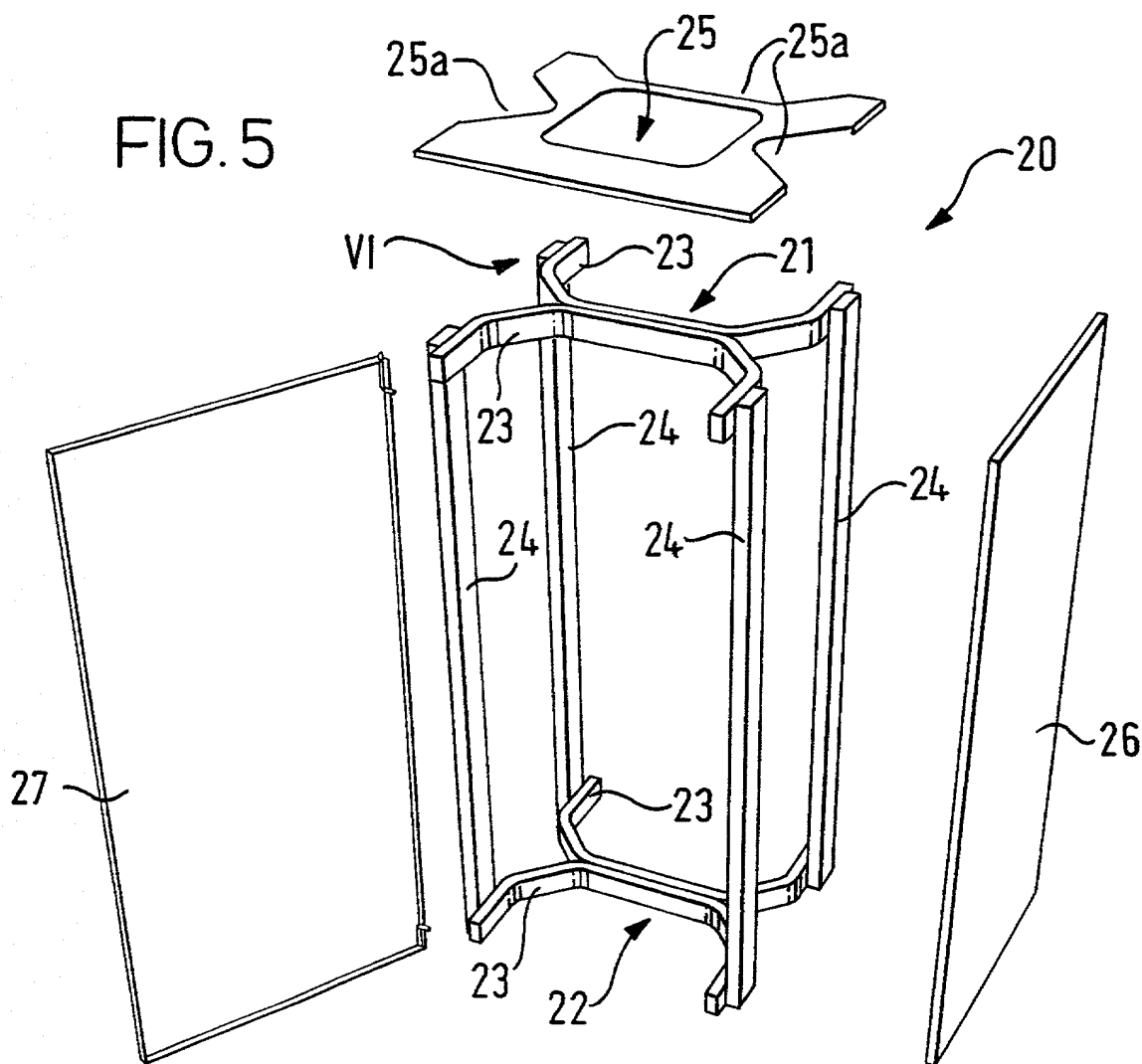


FIG. 6



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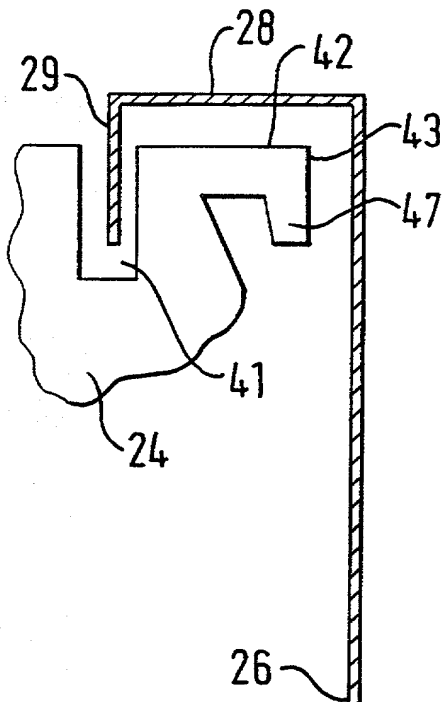


FIG. 8

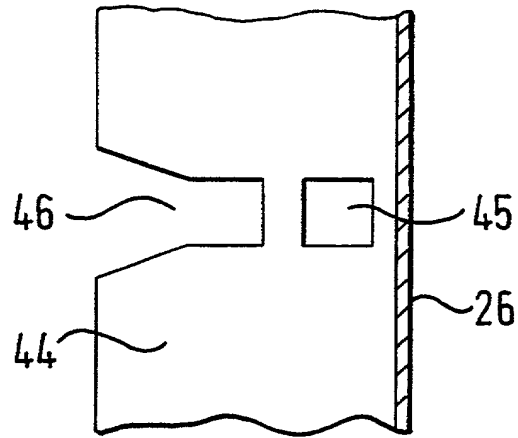


FIG. 9

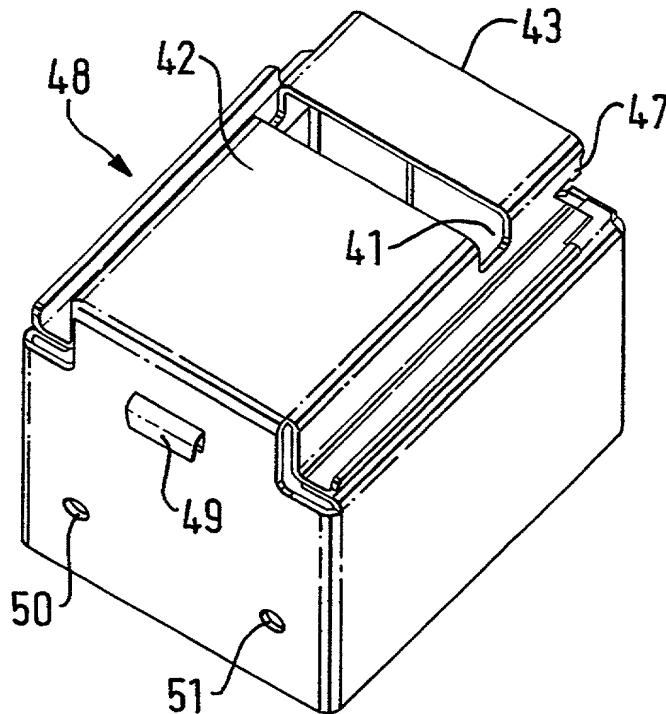


FIG. 10

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FIG. 11

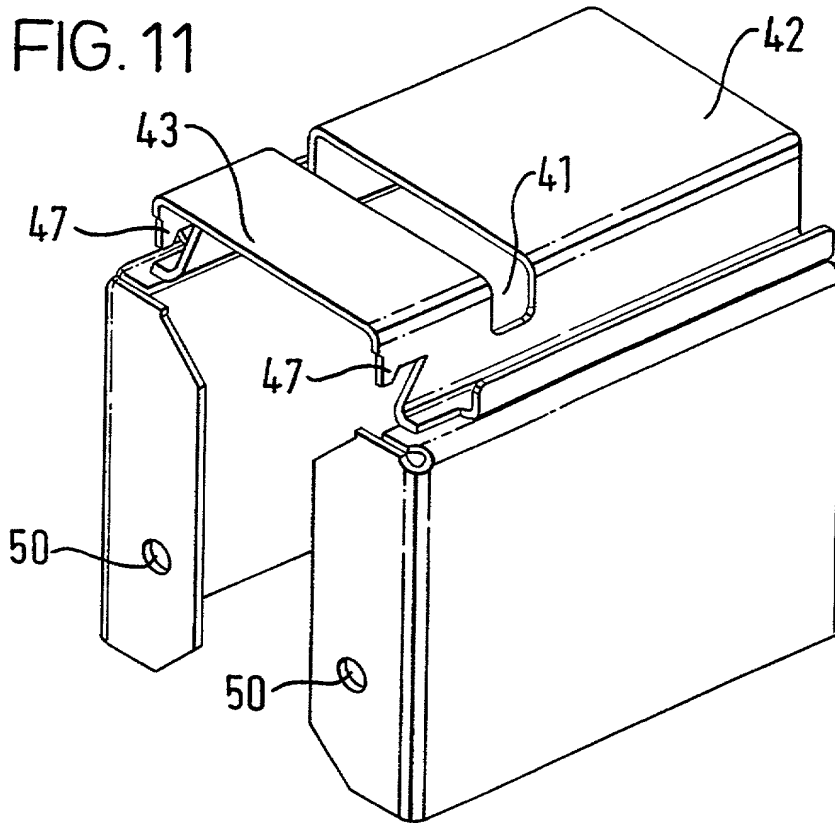
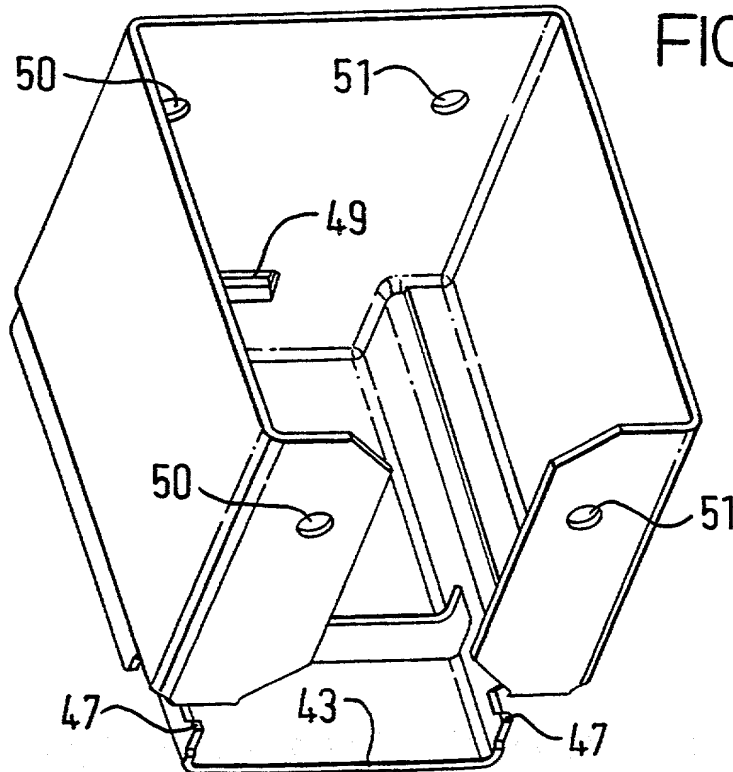


FIG. 12



Attorney Docket No. DYOUN0216US

PATENT (OUS)

COMBINED DECLARATION AND POWER OF ATTORNEY
(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT)

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name; and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Title: **CABINET**

the specification of which

- ☐ is attached hereto, or
- ☒ was filed as United States Application No.: 09/869,618
Application or PCT International (Express Mail Label No.)
Application (give Express Mail label Filing Date: June 29, 2001
number and deposit date if (Deposit Date)
Application number not yet known): Amended on (if applicable):

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations §1.56(a).

PRIORITY CLAIM

I hereby claim priority benefits under Title 35, United States Code, §119 of (i) any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed; and (ii) any United States provisional application(s) that is/are listed below.

- ☐ no such applications have been filed.
- ☒ such applications have been filed as follows.

EARLIEST FOREIGN/PROVISIONAL APPLICATION(S), IF ANY FILED WITHIN 12 MONTHS
(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED	
			Yes	No
GB	9828841.8	30 December 1998	X	

ALL FOREIGN APPLICATION(S), IF ANY FILED MORE THAN 12 MONTHS
(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

POWER OF ATTORNEY

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (List name and registration number)

3 Armand P. Boisselle, Reg. No. 22,381; Warren A. Sklar, Reg. No. 26,373; Don W. Bulson, Reg. No. 28,192

The undersigned to this declaration and power of attorney hereby authorizes the U.S. attorney(s) named herein to accept and follow instructions from

Authorized representative: D. Young & Co., Briton House, Briton Street, Southampton SO14 3EB, United Kingdom

as to any actions to be taken in the Patent and Trademark Office regarding this application without direct communication between the U.S. attorney(s) and the undersigned. In the event of a change in the person(s) from whom instructions may be taken, the U.S. attorney(s) will be so notified by the undersigned.

Send Correspondence To

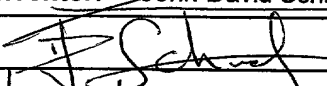
Don W. Bulson, Esq.
Renner, Otto, Boisselle & Sklar, LLP
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Cleveland, Ohio 44115

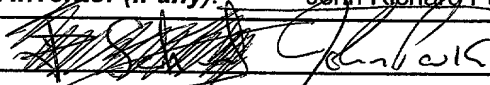
Direct Telephone Calls To:

(name and telephone number)

Don W. Bulson
(216) 621-1113

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sole or First Inventor: <u>John David Schnabel</u>			
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Full Name of Additional Joint Inventor (if any): <u>John Richard Parkin</u>			
Inventor's signature:		Date:	<u>7/03/02</u>
Residence: (City & State/Country):	Same as Post Office Address	Citizenship:	United Kingdom
Post Office Address:	1 St. Mary's Close Brangore Christchurch Dorset <u>BH23 8HU</u> <u>GBX</u> UNITED KINGDOM		

CHECK FOR ANY OF THE FOLLOWING ADDED PAGE(S) WHICH FORM A PART OF THIS DECLARATION

- [] Signature for additional joint inventors.
 [] Added page to combined declaration and power of attorney for divisional, continuation, or continuation-in-part (CIP) application.
 [X] This declaration ends with this page.